

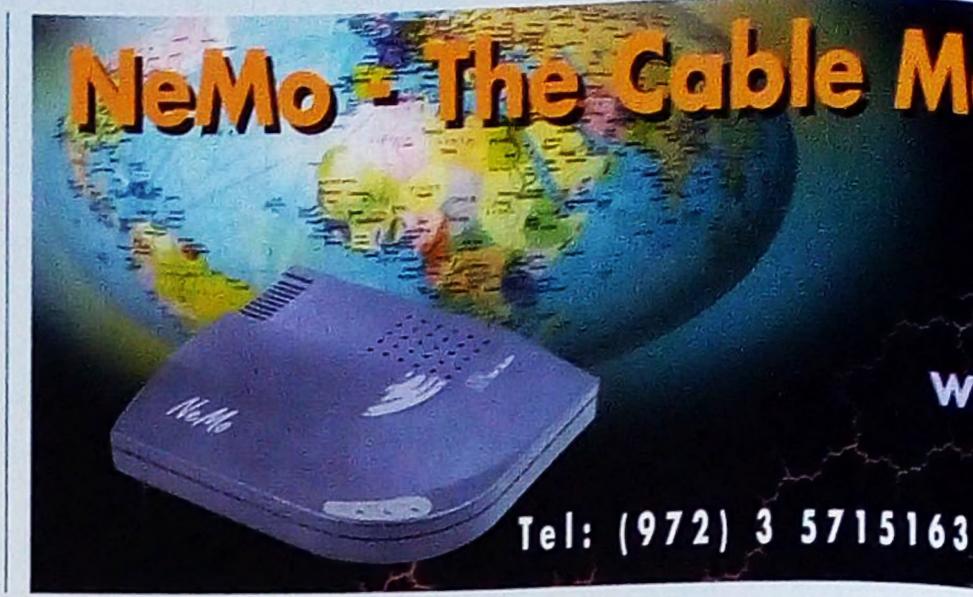


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2000 INTERNATIONAL CABLE-MODEM DEPLOYMENTS

Our second-annual international cable-modem deployment chart illustrates the ever-hastening race toward new revenue streams, with rollouts from dozens of operators in nearly 50 countries.

At the same time, while some cable-modem manufacturers lead the market in deployments, it's clear that a number of firms are vying for — and securing — contracts with cable operators around the world.

So just how important is the international cable-modem market? Well, some of the biggest U.S.-based manufacturers say that much more than half

their sales come from outside their home territory.

An in-depth look at the U.S. cable-modem market appears in the March edition of our sister publication, *CED*.

A hearty thanks to cable-modem vendors and others who helped in research this year's chart. Future news on international cable-modem deployments can be sent to *CED* senior editor Jeff Baumgartner (fax: 1-303-470-4890, e-mail: jbaumgartner@cahners.com) or *Multichannel News International* managing editor Mike Galetto (fax: 1-212-463-6700, e-mail: mgaletto@cahners.com).

COUNTRY	CABLE OPERATOR/TELCO (CITY)	VENDOR	CABLE ISP
Argentina	CABLEVISION S.A.	3Com, Com21	CableVisión
Argentina	MULTICANAL	Nortel Networks, Motorola	CableNet
Argentina	SUPERCANAL	Com21	SuperCanal
Australia	AUSTAR UNITED COMMUNICATIONS	N/A	chello broadband
Australia	OPTUS	Nortel Networks	@Home
Australia	TELSTRA (Melbourne, Sydney)	Motorola, Hybrid Networks	Big Pond
Austria	CABEL SIGNAL	GADline	Cabel Signal
Austria	TELESYSTEM TIROL	N/A	chello broadband
Austria	UPC TELEKABEL	Nortel Networks, Terayon	chello broadband
Bahamas	CABLE BAHAMAS	Terayon	Cable Bahamas
Belgium	BRUTELE (Brussels)	Terayon	Brutele
Belgium	TELENET (Flanders)	Terayon, Motorola	Telenet
Belgium	TV-D-RADIO PUBLIC	Terayon	chello broadband
Belgium	WOLU TV	N/A	chello broadband
Brazil	ANATEL	3Com	Anatel
Brazil	GLOBO CABO (São Paulo, Sorocaba)	Terayon	Virtua
Brazil	TVA	3Com	Ajato
Brazil	TV FILME	Motorola	N/A
Bulgaria	UNICOMS	NetGame	N/A
Canada	ACCESS CABLE (Nova Scotia, New Brunswick)	Nortel Networks	N/A
Canada	ACCESS COMMUNICATIONS (Dartmouth, Sackville and Bedford)	N/A	Access Communications
Canada	BLUEWATER CABLE TV	GADline	N/A
Canada	CABLE ATLANTIC (St. John's)	Zenith	Road Runner
Canada	CABLE REGINA (Regina)	Zenith	Cable Regina
Canada	CABLENET (Burlington, Oakville, Hamilton, Niagara Falls, and Peterborough)	Zenith	Cablenet
Canada	CAPE BRENTON CABLE/CAPE BRENTON COMMUNITY NETWORK	Nortel Networks, Zenith	N/A
Canada	COGECO (Burlington)	Cisco, Samsung	@Home
Canada	COGECO (Montreal suburbs)	Nortel Networks, Zenith	@Home
Canada	COGECO (Quebec and Ontario)	Zenith	@Home
Canada	COGECO (Toronto, Windsor)	N/A	@Home
Canada	COMPTON CABLE	GADline	N/A
Canada	DELTA CABLE COMMUNICATIONS (Delta, British Columbia)	Com21	N/A
Canada	EASTERN CABLE (Halifax)	Nortel Networks	@Home
Canada	EASTLINK COMMUNICATIONS (Halifax)	Com21	EastLink
Canada	FUNDY COMMUNICATIONS (Moncton, Fredericton, Oromocto and St. John's)	Scientific-Atlanta	N/A
Canada	HALIFAX CABLE (Halifax)	Com21	N/A
Canada	INUVIK TV (Inuvik, Arctic Circle)	Zenith	N/A
Canada	LINDSAY COMCABLE	GADline	N/A
Canada	MOUNTAIN CABLE (Hamilton)	Nortel Networks	@Home
Canada	MS CABLE TV	GADline	MS CableTV
Canada	MUSKOKA CABLE SYSTEMS	GADline	N/A
Canada	NORTHERN CABLE (Sudbury)	3Com	Adesso
Canada	OSG CABLE (Terrace)	Motorola, Zenith	SpeedLink
Canada	PEACHTREE CABLE	N/A	cableLAN.net
Canada	ROGERS CABLE (Abbotsford, Port Coquitlan, Surrey)	Terayon	@Home

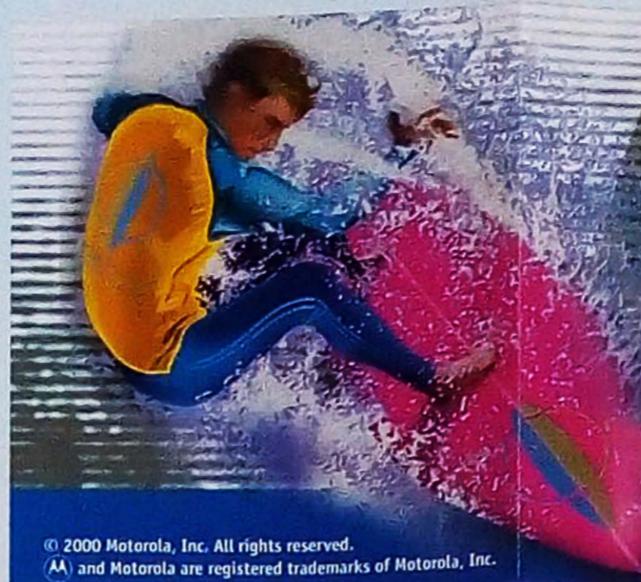
COUNTRY	CABLE OPERATOR/TELCO (CITY)	VENDOR	CABLE ISP
Canada	ROGERS CABLE (Cambridge, Guelph, Kitchener, London, Missauga)	Terayon	@Home
Canada	ROGERS CABLE (Newmarket, North York, Brampton, Bradford, Ottawa, SW Ontario and Toronto)	Nortel Networks, Terayon, Toshiba, Zenith	@Home
Canada	ROGERS CABLE (Hamilton)	Terayon, Zenith	@Home
Canada	ROGERS CABLE (Vancouver)	Zenith, Terayon, Toshiba	@Home
Canada	SAUTEL (Hanover)	N/A	Sautel
Canada	SEASIDE CABLE (Cape Breton)	Nortel Networks, Zenith	N/A
Canada	SHAW CABLESYSTEMS (Calgary and Toronto)	Motorola, Terayon	@Home
Canada	SHAW CABLESYSTEMS (Cordova Bay, Fernwood, Gordon Head, James Bay)	Terayon	@Home
Canada	SHAW CABLESYSTEMS (Barrie, Bolton, Cedar Mills, Holly, Vernon)	Motorola, Terayon	@Home
Canada	SHAW CABLESYSTEMS (Edmonton)	Motorola, Terayon	@Home
Canada	SHAW CABLESYSTEMS (Ft. McMurray)	Motorola, Terayon	@Home
Canada	SHAW CABLESYSTEMS (Ft. Saskatchewan, Leduc, Red Deer, Sherwood Park)	Terayon	@Home
Canada	SHAW CABLESYSTEMS (Kelowna, Langford, Metchosin, Nanaimo)	Motorola, Terayon	@Home
Canada	SHAW CABLESYSTEMS (Markham, Midhurst, Orangeville, Palgrave)	Terayon	@Home
Canada	SHAW CABLESYSTEMS (Oak Bay, Royal Oak, Saanich, Sooke)	Terayon	@Home
Canada	SHAW CABLESYSTEMS (Pickering, Pottageville, Richmond Hill)	Terayon	@Home
Canada	SHAW CABLESYSTEMS (Saint Albert, Broadmead, Cadboro Bay, Colwood)	Terayon	@Home
Canada	SHAW CABLESYSTEMS (Saskatoon)	Motorola, Terayon	@Home
Canada	SHAW CABLESYSTEMS (Scarborough, Thornhill, Thornton)	Terayon	@Home
Canada	SHAW CABLESYSTEMS (Unionville, Vaughan, Woodbridge)	Motorola, Terayon	@Home
Canada	SHAW CABLESYSTEMS (Victoria, Uplands, View Royal)	Motorola, Terayon	@Home
Canada	SHAW CABLESYSTEMS (Winnipeg)	Motorola, Terayon	@Home
Canada	SOUTHMOUNT CABLE	GADline	N/A
Canada	SUNSHINE COMMUNICATIONS (Grand Forks, Christina Lake)	Zenith	N/A
Canada	VIDEON CABLE TV (Winnipeg)	Nortel Networks	Wave
Canada	GROUPE VIDEOTRON (Chicoutimi, Saint Albert)	Motorola	Videotron
Canada	GROUPE VIDEOTRON (Edmonton, Montreal)	Motorola	Videotron
Canada	GROUPE VIDEOTRON (Gatineau, Hull, Laval)	Motorola	Videotron
Canada	GROUPE VIDEOTRON (Montérégie, Papineau)	Motorola	Videotron
Canada	WESTERN CO-AXIAL (Hamilton)	Zenith	N/A
Canada	WESTMAN MEDIA (Brandon)	Nortel Networks	N/A
Chile	TELESYSTEMS	Nortel Networks	Telesystems
China	CHINA MINISTRY OF ELECTRONICS INDUSTRY	Motorola	China Ministry
China	GLW	Hybrid Networks	GLW
China	GUANGZHOU CATV	Hybrid Networks	Guangzhou Cable
China	JIAXING CABLE	N/A	Jiaxing Cable
China	QINGDAO CATV	Nortel Networks	QuingDao
China	SHENZHEN CATV	Terayon	Shenzhen CATV
China	SHANGHAI CATV	Nortel Networks	Shanghai CATV
China	TOPWAY CABLE (ShenZhen)	Nortel Networks, Terayon	Topway
Colombia	EEP	GADline	N/A
Colombia	TV CABLE BOGOTA	Motorola	TV Cable Bogota
Czech Republic	DATTELKABEL (Prague)	NetGame	DatteleKabel
Denmark	ALCATEL & TELE DENMARK	Hybrid Networks	N/A
Denmark	TELE DENMARK	Harmonic	TeleDenmark
Denmark	TELIA STOFA	Com21	Telia Stofa
Ecuador	TV CABLE DE ECUADOR	Motorola	N/A
Finland	TELECOM FINLAND	Zenith, Motorola	Cabinet
France	CIE. GEN. DE VIDEOCOMMUNICATION (Annecy and Strasbourg)	Motorola	N/A
France	FRANCE TELECOM	Com21	France Telecom
France	LYONNAISE CABLE (Angers, Montpellier, Bordeaux, Marseille and St. Quentinen Yvelines)	Hybrid Networks, Com21	Lyonnaise
France	H. INTERCOM	N/A	chello broadband
France	MEDIARESEAUX	N/A	N/A
France	SPIE TRINDEL	Com21	SPIE TrinDEL
France	UPC	Terayon	chello broadband
France	VIDEOPOLE (Paris)	Com21	Videopole
Germany	BKG	GADline	BKG

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COUNTRY	CABLE OPERATOR/TELCO (CITY)	VENDOR	CABLE ISP
Germany	PRIMACOM	Terayon	PrimiCom
Germany	KABEL & MEDIEN OF MUNICH	Harmonic	N/A
Germany	O.TEL.O	Motorola	o.tel.o
Germany	TELE-COLUMBUS	N/A	@Home
Great Britain	CABLE & WIRELESS	Motorola	Cable & Wireless
Great Britain	NTL	Com21, 3Com	NTL
Great Britain	TELEWEST	Nortel Networks	N/A
Hong Kong	HONG KONG CABLE	Terayon	i-CABLE
Hungary	CORY-NET (Szekszard and Tolna County)	Nortel Networks	Cory-Net
Hungary	DATATRANS (Szekesfehervar)	N/A	DataTrans
Hungary	HEVESNET 2000 (Gyoriros-Byongyossolymos)	Nortel Networks	HevesNet
Hungary	SZAB-I-NET	Nortel, Terayon	Cablenet
Hungary	TVNET (Budapest)	Nortel Networks	TVNet
Ireland	CABLELINK	Com21	N/A
Ireland	CABLE MANAGEMENT IRELAND (Dublin)	N/A	Cable Management
Ireland	IRISH MULTICHANNEL (Limerick, Cork, Irish Midlands)	N/A	Irish Multichannel
Israel	GOLDEN CHANNELS	GADline	N/A
Israel	MATAV CABLE	NetGame, GADline	Matav
Israel	NETGAME CABLE (Tel Aviv Hilton Hotel)	NetGame	NetGame
Israel	TEVEL CABLE	NetGame, GADline	Tevel Cable
Jamaica	SPEEDNET COMMUNICAITONS	NetGame	N/A
Japan	CABLE TV YOKKAICHI (Mio)	Nortel Networks	Yokkaichi
Japan	CHIGA SERVICES	Nortel Networks	Chiga
Japan	CTY CABLE	Nortel Networks	CTY Cable
Japan	HEKKAI KATCH NETWORK (Kariya, Anjo, Takahama, Chiryu and Hekinam)	Com21	Hekkai Katch
Japan	HIMAWARI CABLE	Motorola	N/A
Japan	ICC	N/A	ISP Channel
Japan	JAPAN TELECOM	NEC	Japan Telecom
Japan	JUPITER TELECOMMUNICAITONS	Terayon	@Home
Japan	KINTETSU CABLE NETWORK	Terayon	Kinetsu
Japan	KOTO CABLE TELEVISION	Com21	Koto Cable
Japan	MARUBENI CORP.	Motorola	Marubeni
Japan	MITSUI & CO.	Nortel Networks	N/A
Japan	MOSHINOMITAKA	Nortel Networks	Moshinomitaka
Japan	MUSASHINO MITAKA CABLE (Tokyo)	Nortel Networks	Musashino
Japan	MYTV	Terayon	N/A
Japan	NAGOYA CABLE	Nortel Networks	Nagoya Cable
Japan	NIHON NETWORK SERVICE	Com21	Nihon
Japan	SOUTH TOKYO CABLEVISION	NEC	South Tokyo Cablevision
Japan	SUZUKA CABLE CO.	Com21	Suzuka Cable
Japan	TAKAOKA CABLE TV (Toyama)	Toshiba	Takaoka
Japan	TITUS COMMUNICAITONS	Terayon, Com21	AllNet
Japan	TOKYO CABLE NETWORK	Com21	N/A
Japan	TOKYO CABLE (Kawasaki)	Terayon	N/A
Japan	TOKYU CABLE (Shibuya, Tokyo and Yokahama)	Terayon	N/A
Japan	TOWN TV KANAZAWA (Kanagawa)	Nortel Networks, Motorola	Town TV
Japan	TOYOHASHI CABLE NETWORK	NEC	Toyohashi
Japan	TSU CABLE TELEVISION (Mie)	Fujitsu	TSU Cable TV
Japan	UEDA CABLEVISION (Nagano)	Nortel Networks	N/A
Japan	YONAZAWA CABLE TV	Nortel Networks	Yonazawa Cable TV
Japan	YOU CABLE TELEVISION (Kanagawa)	Nortel Networks	You Cable TV
Korea	CABLE & MULTIMEDIA	Terayon	C&M
Korea	KOREA ELECTRIC POWER	Motorola, Samsung	Korea Electric Power
Korea	DACOM	Com21, Hybrid Networks, Samsung	Dacom
Korea	HANARO	Motorola, Samsung	N/A
Korea	THRUNET	Motorola, Samsung	N/A
Latvia	METROMEDIA INTERNATIONAL (Riga)	Hybrid Networks	Metromedia
Mexico	CABLEVISION DE MONTERREY	Motorola	InterCable
Mexico	INTERCABLE (Monterrey)	Motorola	CableLink
Mexico	MEGACABLE	Zenith, Terayon	N/A
Mexico	TELEVISION INTERNATIONAL	Motorola	N/A
Netherlands	A2000	Nortel Networks, Zenith	chello broadband
Netherlands	BRUSSUM CITY	Deltakabel	N/A
Netherlands	CAI WESTLAND (Naaldwijk)	Deltakabel	N/A
Netherlands	CASEMA	Deltakabel	Casema
Netherlands	ENECO (Rotterdam)	Com21	Eneco
Netherlands	KABELFOON/CAI WESTLAND	Deltakabel	N/A
Netherlands	NUTSBEDRIJF	Nortel Networks	N/A
Netherlands	NKM VEENENDAAL	Deltakabel, Nortel Networks	NKM
Netherlands	REND0 (Meppel)	Deltakabel	N/A
Netherlands	TELECAI (Utrecht)	Deltakabel	N/A
Netherlands	TELEKABEL/SONERA	Com21	Telekabel
New Zealand	SATURN CABLE	N/A	chello broadband
Norway	ANETT (Baerum)	Com21	N/A

COUNTRY	CABLE OPERATOR/TELCO (CITY)	VENDOR	CABLE ISP
Norway	AVIDI (Oslo, Trondheim and Molde)	Nortel Networks	N/A
Norway	BAERUM KABELT	Com21	Baerum Kabelt
Norway	JANCO KABEL	Motorola	N/A
Norway	JANCO MULTICOM (Oslo)	Motorola	chello broadband
Norway	NKM	Nortel Networks	N/A
Norway	NORSKE FJERNSYNSANTENNER (Oslo)	Motorola	N/A
Norway	TELENOR AVIDI	NetGame	Telenor
Norway	UPC	Terayon	chello broadband
Panama	CABLE ONDA	Com21	N/A
Peru	TELEFONICA	Terayon	Telefónica
Philippines	DESTINY CABLE (Pasig and Makati)	Com21, NEC	Destiny
Poland	ELSAT	NetGame	N/A
Poland	MULTIMEDIA POLSKA	Motorola	Multimedia Polska
Portugal	CABOVISÃO	Nortel Networks	Cabovisão
Puerto Rico	PEGASUS COMMUNICATIONS (Mayaguez)	N/A	ISP Channel
Puerto Rico	TELEPONCE CABLE	N/A	ISP Channel
Romania	CVR	NetGame	N/A
Romania	KAPPA CABLE	Nortel Networks	KappaNet
Romania	ROMANIA CATV SYSTEMS	Nortel Networks	Romania Data Systems
Romania	ROMSAT CABLE & RADIO (Bucharest)	Nortel Networks	CoNect
Russia	PACT COMPANY (St. Petersburg)	NetGame	Pact
Scotland	TELEWEST	Nortel Networks	Telewest
Singapore	SINGAPORE CABLEVISION	Motorola	N/A
Slovenia	ASTRA TELECOM	NetGame	N/A
Slovenia	ELTRADE	NetGame	Eltrade
Slovenia	ELEKTROPROM	NetGame	Elektroprom
Slovenia	KRS ROTOVS (Maribor)	NetGame	KRS
Slovenia	MAGLIC TELEKOM	NetGame	Maglic Telekom
Spain	CABLE 1 TELEVISION DE CATALUNYA (Girona, Lleida and Terragona)	Com21	Cablenauta
Spain	ONO (Valencia)	N/A	ONO
Spain	TELECABLE (Asturias)	Com21	N/A
Spain	RETECAL (Castilla-Leon)	Com21	Retecal
Spain	SUPERCABLE (Sevilla)	Com21	Supercable
Spain	TELECABLE (Asturias)	Com21	Telecable
Sweden	B2	N/A	B2
Sweden	ENGELHOLMS KABEL TV	Com21, ISC DataCom, Nortel Networks, Zenith	Engelholms
Sweden	LANDSKRONAHEM (Simrishamn)	Com21, Zenith	N/A
Sweden	STJARN TV (Stockholm)	N/A	chello broadband
Sweden	SIMRISHAMS EMERGI	Com21	N/A
Sweden	STICKLINGE SATELLITE GROUP ONE	NetGame	N/A
Sweden	TELIA	NetGame	N/A
Switzerland	BESONET (Grenchen, Lyss, Brugg)	Terayon	Besonet
Switzerland	CABLECOM HOLDINGS (Zurich)	Com21	Cablecom
Switzerland	EW AABERG	Terayon	EW Aaberg
Switzerland	GEMEINDE UITIKON	Terayon	Gemeinde
Switzerland	GEMEINDEBETRIEBE HERZOGENBUCHSEE	Terayon	N/A
Switzerland	GENOSENSCHAFT GENEINSCHAFTSANTENNE RUSWIL	Terayon	N/A
Switzerland	INGLOBE	Terayon	Inglobe
Switzerland	OSSINGEN KABEL	NetGame	N/A
Switzerland	RADIO SCHEFER	Terayon	Radio Schefer
Switzerland	R+F-NETZ ZOLLIKON	Nortel Networks	N/A
Switzerland	SWISS CABLE NET	Cisco	Swiss Cable Net
Switzerland	TELEZUG (Zug)	Terayon	Telezug
Switzerland	TELINDUS	Com21	Telindus
Switzerland	URBANET	Zenith	Urbanet
Switzerland	VILLE DE LAUSANNE	Terayon	N/A
Taiwan	BAUFU (Taipei)	3Com	N/A
Taiwan	CHANDER (Taipei)	3Com	GigaNet
Taiwan	ETHOME	Motorola	N/A
Taiwan	GIGAMEDIA	3Com	GigaNet
Taiwan	LIKUAN (Taipei)	3Com	LiKuan
Taiwan	TELEFIRST (Taoyuan City)	3Com	GigaNet
Taiwan	WANHSIAN (Taipei)	3Com	GigaNet
Thailand	UTV	N/A	UTV
Ukraine	GLOBAL UKRAINE	NetGame	N/A
Ukraine	KIEV TELE MONTAZH	NetGame	N/A
Ukraine	INTER VIDEO KIEV	NetGame	N/A
Ukraine	INFORMATION TECHNOLOGIES	NetGame	N/A
Venezuela	VININFOTEL	Terayon	N/A

Sources: Geko Research & Publishing (www.catv.org), Cable Datacom News (www.cabledatocomnews.com), modem vendors, CED and Multichannel News International research.

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